

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Protech Screens, Inc. P. O. Box 1710 Pearland, TX 77588

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.028" Stainless Steel Hurricane Screen Barrier

APPROVAL DOCUMENT: Drawing No. 12-097, titled "Hurricane Screen Barrier", sheets 1 through 10 of 10, prepared by EngCo, Inc., dated May 17, 2012, signed and sealed by Pedro De Figueiredo, P.E. on March 12, 2013, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each module shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA #07-0208.08 and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

Hely A. Nela 04/18/2013

NOA No 12-0725.02 Expiration Date: 08/22/2017 Approval Date: 04/18/2013 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0212.06

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 02-623, titled "Hurricane Screen Shutter", sheets 1 through 3, prepared by EngCo, Inc., dated 5/22/02, signed and sealed by Pedro De Figueiredo, P.E.

B. TESTS

- 1. Test reports on 1)Uniform Static Air Pressure Test, Loading per SFBC PA 202-94
 - 2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
 - 3) Large Missile Impact Test per SFBC, PA 201-94

along with marked-up drawings and installation diagram of an aluminum hurricane screen shutter with a stainless steel screen, prepared by Hurricane Testing Laboratories, Test Report No. 0203-1221-01, dated 12/17/01, signed and sealed by Vinu Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, prepared by EngCo, Inc., dated 5/28/02, signed and sealed by Pedro De Figueiredo, P.E.

D. MATERIAL CERTIFICATIONS

1. None

E. STATEMENTS

1. Statement letter of conformance and no financial interest, dated 5/31/02, signed and sealed by Pedro De Figueiredo, P.E.

F. OTHER

1. Letter from Pistorino & Alam Consulting Engineers, Inc.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0528.01

A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 02-623R1, titled "Hurricane Screen Shutter", sheets 1 through 5 of 5, prepared by EngCo, Inc., revision #1, dated April 25, 2003, signed and sealed by Pedro De Figueiredo, P.E.,

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

> NOA No 12-0725.02 Expiration Date: 08/22/2017

Approval Date: 04/18/2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

- 1. Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "F" Frame Operable Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-02-150, dated May 19, 2003, signed and sealed by Abdol H. Rezadad, P.E.
- 2. Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "L" Frame Triple Mulled Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-03-028, dated May 6, 2003, signed and sealed by Abdol H. Rezadad, P.E.

C. CALCULATIONS

- 1. Anchor Calculations and structural analysis, 20 pages, prepared by EngCo, Inc., dated May 13, 2003, signed and sealed by Pedro De Figueiredo, P.E.
- 2. Anchor Calculations and structural analysis, 6 pages, prepared by EngCo, Inc., dated June 3, 2002, signed and sealed by Pedro De Figueiredo, P.E.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0228.04

A. DRAWINGS

1. Drawing No. 05-016, titled "Hurricane Screen Barrier", sheets 1 through 7 of 7, prepared by EngCo, Inc., dated January 14, 2005, signed and sealed by Pedro De Figueiredo, P.E. on April 11, 2005.

B. TESTS

1. Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "F" Frame Operable Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-04-040, dated April 12, 2004, signed and sealed by Abdol H. Rezadad, P.E.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

ct Control Unit Supervisor NOA No 12-0725.02

Expiration Date: 08/22/2017 Approval Date: 04/18/2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "Z" Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-04-145, dated September 10, 2004, signed and sealed by Abdol H. Rezadad, P.E.
- 3. Test reports on Uniform Static Air Pressure Test per TAS 202, and Cyclic Wind Pressure per TAS 203, along with marked-up drawings and installation diagram of Series "Z" Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-04-162, dated September 23, 2004, signed and sealed by Abdol H. Rezadad, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, 20 pages, prepared by EngCo, Inc., dated February 24, 2005, signed and sealed by Pedro De Figueiredo, P.E.

D. OUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0912.02

A. DRAWINGS

1. Drawing No. 05-016r1, titled "Hurricane Screen Barrier", sheets 1 through 7 of 7, prepared by EngCo, Inc., dated July 11, 2005, signed and sealed by Pedro De Figueiredo, P.E. on July 11, 2005.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No 12-0725.02

Expiration Date: 08/22/2017 Approval Date: 04/18/2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EV	VIDENCE	SUBMITTED	UNDER	PREVIOUS	APPROVAL	#07-0208.08
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- A. DRAWINGS
 - 1. None.
- B. TESTS

1. None.

- C. CALCULATIONS
 - 1. None.
- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS
 - 1. None
- 6. NEW EVIDENCE SUBMITTED
- A. DRAWINGS
 - 1. None.
- B. TESTS
 - 1. None.
- C. CALCULATIONS
 - 1. None.
- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATIONS
 - 1. None

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No 12-0725.02

Expiration Date: 08/22/2017 Approval Date: 04/18/2013

SCREEN BARRIER

0.028" STAINLESS STEEL HURRICANE BARRIER LARGE AND SMALL IMPACT RESISTANT ALLOWABLE PRESSURE: SEE SHEET 2

GENERAL NOTES:

- 1 CODE: FLORIDA BUILDING CODE 2010 HVHZ.
- 2- TEST COMPLIANCE: TAS 201, TAS 202 AND TAS 203
- 3- PRODUCT DESCRIPTION: THIS PRODUCT IS A HURRICANE BARRIER DEVICE COMPOSED OF AN OPERABLE OR FIXED SCREEN
- 4- LABEL: A PERMANENT LEGIBLE LABEL SHALL BE PLACED ON EACH UNIT AT A VISIBLE LOCATION STATING THE FOLLOWING:

*HURRICANE SCREEN BARRIER PROTECH SCREEN, INC. - PEARLAND, TEXAS MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

5- MATERIAL:

- 5.1- SCREEN MESH MADE OF 0.028" STAINLESS STEEL 304 GRADE.
- 5.2- ALL ALUMINUM EXTRUSIONS SHALL BE MADE WITH GOG3-T5 ALLOY OR AS INDICATED IN THIS DRAWING.
- 5.3- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS, INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- 6- LOADS: A PROJECT DESIGN PRESSURES, DETERMINED FROM SECTION 1620 AND ASCE 7-10, SHALL BE PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER. THE PRESSURES MUST BE MULTIPLIED BY O.G FACTOR AND MUST NOT EXCEED THE PRODUCT ALLOWABLE PRESSURES HERE IN SPECIFIED.
- 7- THE CONTRACTOR MUST VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE IN SUSTAINING THE PRODUCT IMPOSED LOADS.
- 8- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FBC SECTION 2003.8.4.
- 9-33 1/3% INCREASE IN ALLOWABLE STRESS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT, ANCHORS INTO WOOD WERE DESIGNED WITH 1.6 LOAD DURATION.

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1	GENERAL NOTES AND TABLE OF CONTENTS
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4	TYPE B BARRIER DETAILS
5	TYPE C BARRIER DETAILS
6	TYPE DGO BARRIER DETAILS
7	TYPE D48 BARRIER DETAILS
8	TYPE E BARRIER DETAILS
9	TYPE F BARRIER DETAILS
10	PRODUCT COMPONENTS & CORNER ASSEMBLY

MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

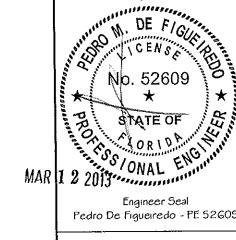
PRODUCT:

SCREEN BARRIER 0.028" STAINLESS STEEL HURRICANE SCREEN LARGE & SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILG 5595 ORANGE DR. 201

DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

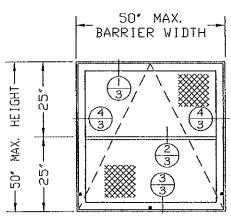
PRODUCT REVISED as complying with the Florida Building Code Acceptance No [

DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

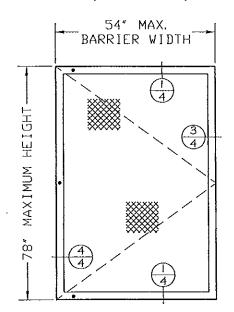
> SHEET 1 OF 10

TYPICAL ELEVATIONS AND ALLOWABLE PRESSURES

TYPE A OUT-SWING OPERABLE BARRIER (SHEET 3 OF 10)



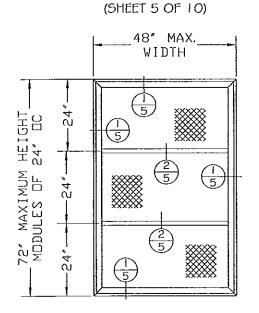
TYPE B - OUT-SWING OPERABLE BARRIER (SHEET 4 of 10)



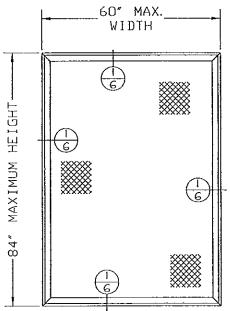
NOTES:

1- PRODUCT CAN BE INSTALLED ROTATED. 2-#12X.028 - 40% POROSITY (SCREEN)

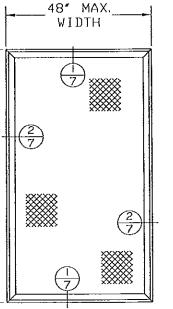
TYPE C - FIXED BARRIER



TYPE DGO FIXED BARRIER (SHEET 6 OF 10)



TYPE D48 FIXED BARRIER (SHEET 7 OF 10)



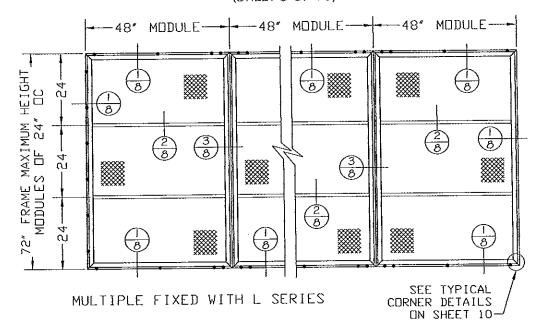
HEIGHT

MAXIMUM

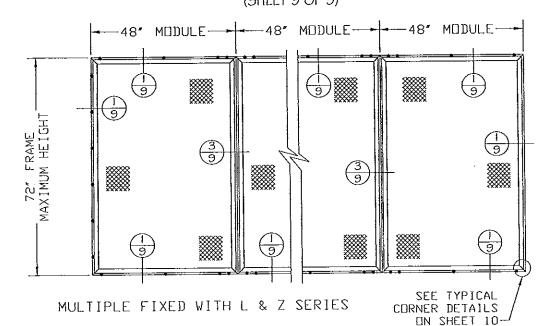
ALLOWABLE DESIGNED PRESSURES:

TYPE	SERIES	ALLOWABLE PRESSURES (PSF)
A	F	+88, -88
В	F	+98, -98
	Z	+52, -52
С	<u> </u>	+55, -60
-	F	+53, -58
D60	Z	+122, -217
D48	Z	+121,-135
E (*)	L.	+55, -60
F (*)	L. \$ Z	+55, -60
(') MUL	TIPLE FIXED BA	RRIERS

TYPE E - MULTIPLE FIXED BARRIERS (SHEET 8 OF 10)



TYPE F - MULTIPLE FIXED BARRIERS
(SHEET 9 OF 9)



MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

PRODUCT:

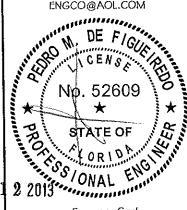
SCREEN BARRIER

O.O28* STAINLESS STEEL HURRICANE SCREEN LARGE \$ SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILG

5595 ORANGE DR. 201 D A VIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Engineer Seal Pedro De Figueiredo - PE 52609

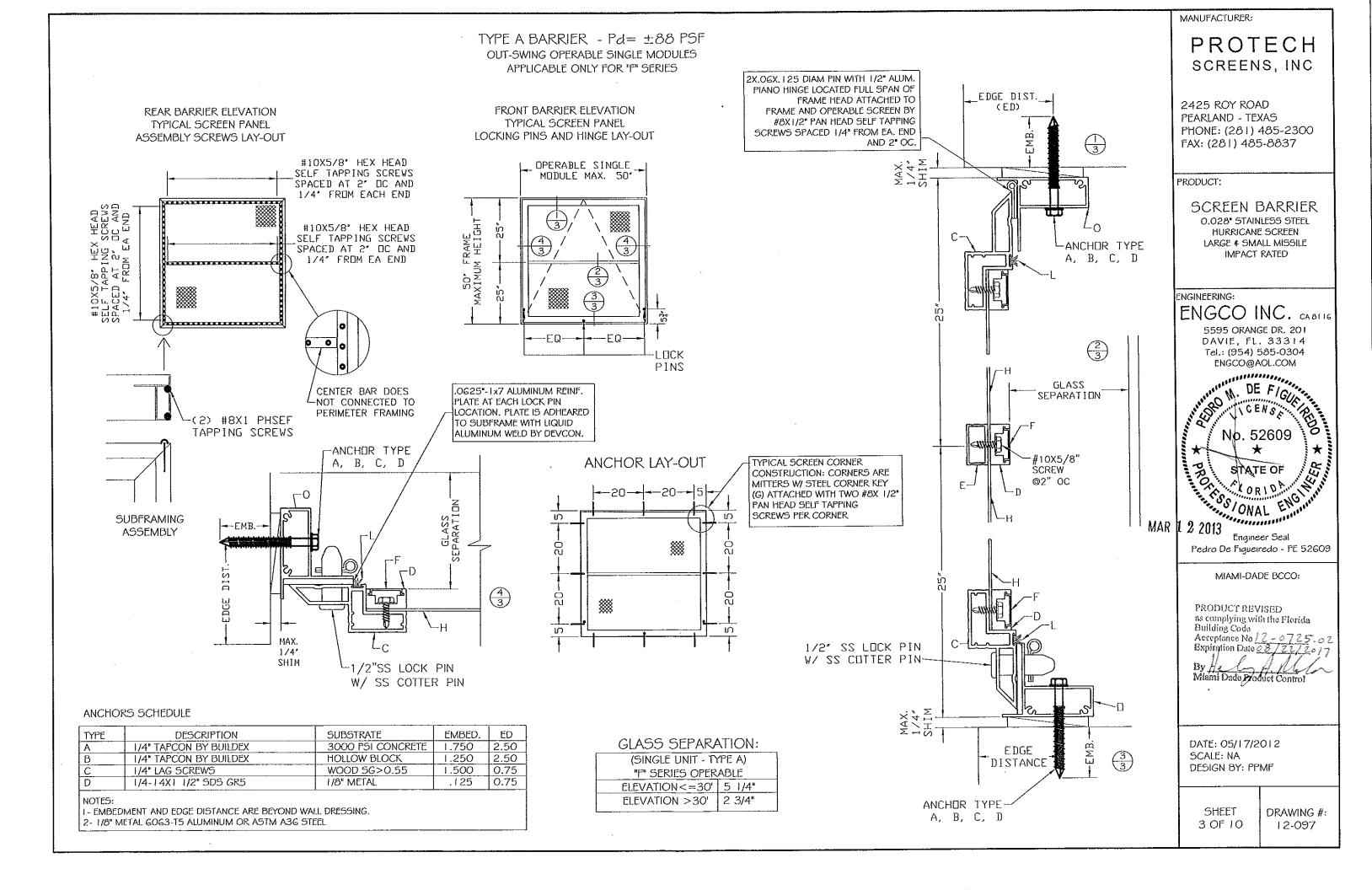
MIAMI-DADE BCCO:

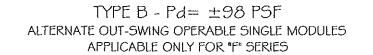
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 2-0725.02
Expiration Date 08/22/20/2

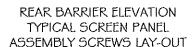
By Ho Mismi Dado Troduct Control

DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

SHEET 2 OF 10







#10X5/8" HEX HEAD SELF TAPPING SCREWS SPACED AT 2' DC AND 1/4" FROM EACH END _____ EX HEAD

IG SCREWS

" CC AND

EA END [P-

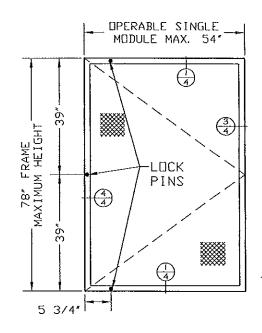
-SUBFRAMING

SAME AS TYPE A

SEPARATION

ASSEMBLY

FRONT BARRIER ELEVATION TYPICAL SCREEN PANEL LOCKING PINS AND HINGE LAY-OUT



TYPICAL SCREEN CORNER CONSTRUCTION: CORNERS ARE MITTERS W/ STEEL CORNER KEY (G) ATTACHED WITH TWO #8X 1/2" PAN HEAD SELF TAPPING SCREWS PER CORNER

ANCHOR SPACING (in oc)

HEADER/SILL

14 5/8

14 5/8"

22

22"

SPACING TABLE ഗ HE I GHT JAMBS MAXIMUM 22" 1 | " 22" œ

ANCHOR LAY-OUT

SEE ANCHOR

ANCHORS SCHEDULE

-1/2" SS LOCK PIN

W/ SS COTTER PIN

TYPE

Α

В

С

TYPE	DESCRIPTION	SUBSTRATE	EMBED.	ED
A	1/4" TAPCON BY BUILDEX	3000 PSI CONCRETE	1.750	2.50
В	1/4" TAPCON BY BUILDEX	HOLLOW BLOCK	1.250	2.50
С	1/4" LAG SCREWS	WOOD 5G>0.55	1.500	0.75
D	1/4-14X1 1/2* SDS GR5	1/8" METAL	.125	0.75

1/4"

SHIM

NOTES:

- I EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING.
- 2- 1/8" METAL 6063-T5 ALUMINUM OR ASTM A36 STEEL

←EDGE DIST.-GLASS SEPARATION: (SINGLE UNIT - TYPE B) "F" SERIES OPERABLE 2X.06X.125 DIAM PIN WITH 1/2" ALUM. PIANO ELEVATION <= 30 | 5 3/4" 4 HINGE LOCATED FULL SPAN OF FRAME JAMB $\begin{pmatrix} 3 \\ 4 \end{pmatrix}$ ELEVATION >30' ATTACHED TO FRAME AND OPERABLE SCREEN BY #8X1/2" PAN HEAD SELF TAPPING SCREWS SPACED 1/4" FROM EA, END AND 2" OC. $\begin{pmatrix} 1 \\ 4 \end{pmatrix}$ -ANCHOR TYPE ARCHOR TYPE -ANCHOR TYPE A, B, C, D-A, B, C, D A, B, C, D 1/2" SS LOCK PIN W/ SS COTTER PIN 1/8X1X3/4 - 5" LONG ALUMINUM REINFORCEMENT AT EACH DIST LOCK PIN LOCATION, REINF, IS SECURE TO "O" FRAMING W/ (3) #8X1/2"HH TEK ON 1" LEG AND (2) #8X1/2 PH TEK ON 3/4" LEG H-GLASS MAX. MAX.

1/4*

MIHS

MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

PRODUCT:

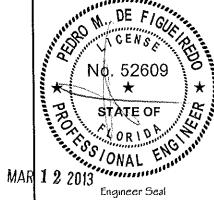
SCREEN BARRIER

0.028" STAINLESS STEEL HURRICANE SCREEN LARGE & SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILG

5595 ORANGE DR. 201 DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Engineer Seal Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0725.07 Expiration Date 08/22/2017

Miami Dado Product Control

DATE: 05/17/2012

SHEET

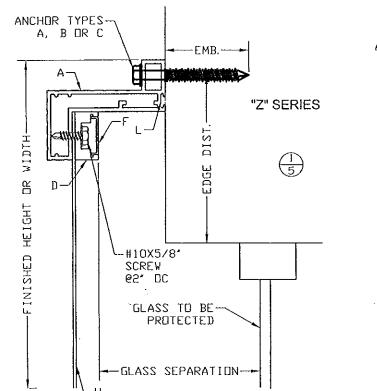
4 OF 10

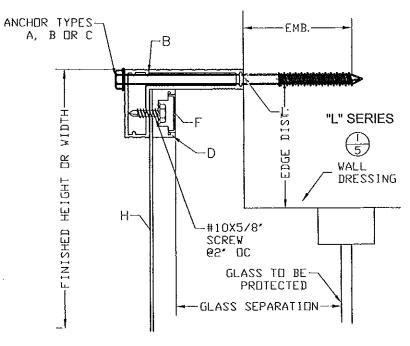
DESIGN BY: PPMF

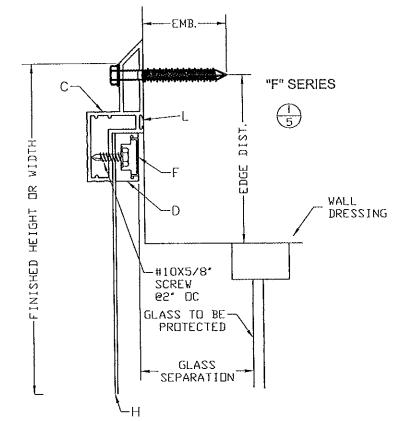
SCALE: NA

TYPE C BARRIER Pd(F) = +53,-58 PSF, Pd(L) = +55,-60 PSF, Pd(Z) = +52,-52 PSFFIXED SINGLE MODULES

APPLICABLE FOR "F", "L", "Z" SERIES







-GLASS SEPARATION→ я * (2) #10X5/8" SCREW MΑΧ @2" OC SEE ,24°

GLASS SEPARATION: (SINGLE UNIT)

<=30'

2 3/4"

3 5/8"

2 7/8"

ELEVATION

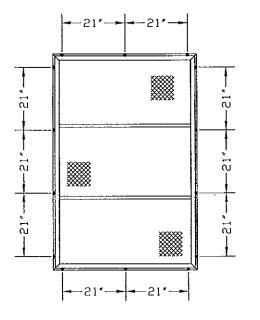
>30'

2 3/8"

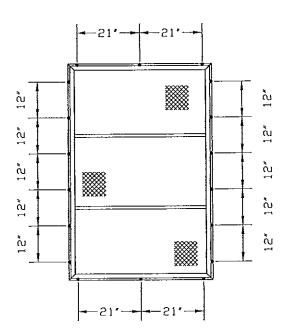
2 1/2"

2 1/8"

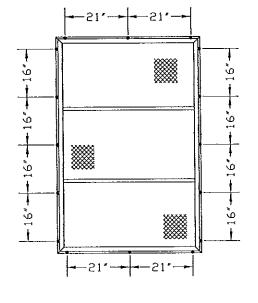
ANCHORS SPACING LAY-OUT TRACKS "F" INSTALLATION INTO HOLLOW BLOCK ALL TRACKS INSTALLATION INTO CONCRETE \$ WOOD



ANCHORS SPACING LAY-OUT TRACKS "L" INSTALLATION INTO HOLLOW BLOCK



ANCHORS SPACING LAY-OUT TRACKS 'Z' INSTALLATION INTO HOLLOW BLOCK



ANCHORS SCHEDULE

FRAMING

Z SERIES

L SERIES

F SERIES

TYPE

TYPE	DESCRIPTION	SUBSTRATE	EMBED.	ED
A	1/4" TAPCON BY BUILDEX	3000 PSI CONCRETE	1.750	2.50
В	1/4" TAPCON BY BUILDEX	HOLLOW BLOCK	1.250	2.50
С	1/4" LAG SCREWS	WOOD 5G>0.55	1.500	0.75

I - EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING.

MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

PRODUCT:

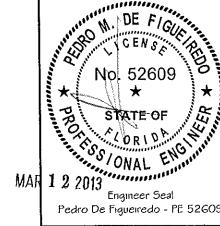
SCREEN BARRIER

0.028" STAINLESS STEEL HURRICANE SCREEN LARGE & SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILE

5595 ORANGE DR. 201 DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED as complying with the Florida. Building Code Acceptance No 12 - 0725 02
Expiration Date 08/22/2017

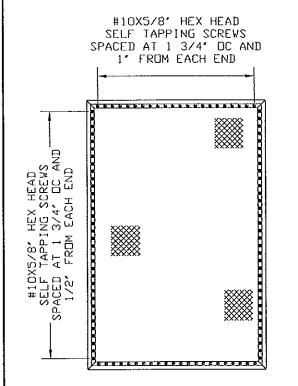
Mizmi Dade Anduct Control

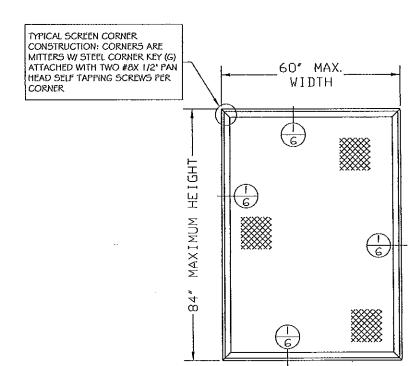
DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

SHEET 5 OF 10

TYPE DGO BARRIER Pd(F) = +122, -217 PSFFIXED SINGLE MODULES APPLICABLE FOR "Z" SERIES

REAR BARRIER ELEVATION TYPICAL SCREEN PANEL ASSEMBLY SCREWS LAY-OUT





GLASS SEPARATION:

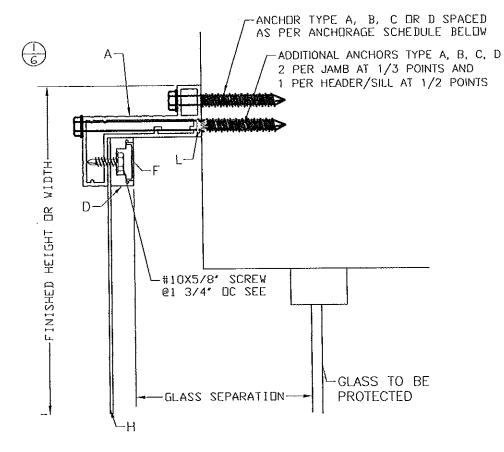
(SINGLE UNIT - T	PE D)
ELEVATION<=30'	4 1/4"
ELEVATION >30'	3 3/4"

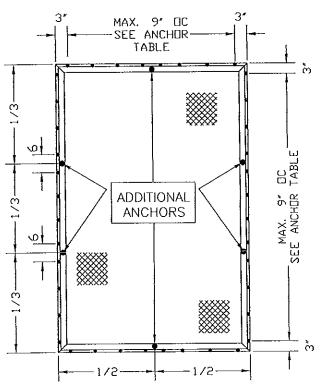
ANCHORS SCHEDULE

	· · · · · · · · · · · · · · · · · · ·			
TYPE	DESCRIPTION	SUBSTRATE	EMBED.	ED
Α	1/4" TAPCON BY BUILDEX	3000 PSI CONCRETE	1.750	2.50
В	1/4" TAPCON BY BUILDEX	HOLLOW BLOCK	1.250	2.50
С	1/4" LAG SCREWS	WOOD 5G>0.55	1.500	0.75
D	1/4-14X1 1/2" SDS GR5	1/8" METAL	.125	0.75

I - EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING.

2- 1/8" METAL GOG3-T5 ALUMINUM OR ASTM A3G STEEL





ANCHOR TABLE MAXIMUM ANCHOR SPACING INCHES OC.

ANCH□R	DES	IGNED P	RESSUR	Ε
TYPE	217	163	108	68
Α	6	9	9	9
В	3	3	6	9
0	6	9	9	9
D	3	3	6	9

MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

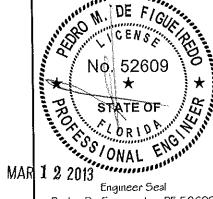
PRODUCT:

SCREEN BARRIER 0.028° STAINLESS STEEL HURRICANE SCREEN LARGE # SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABIIG 5595 ORANGE DR. 201

DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

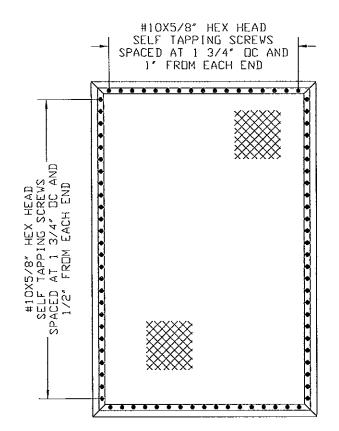
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 2

Expiration Date 08/71 Miami Dade Product Confro

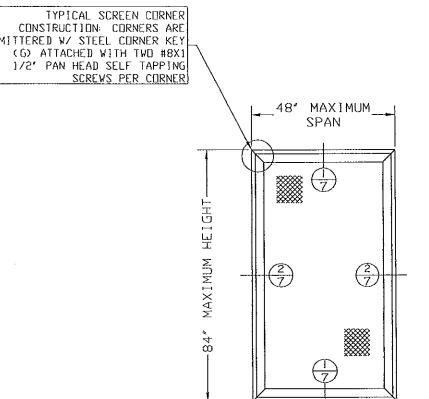
DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

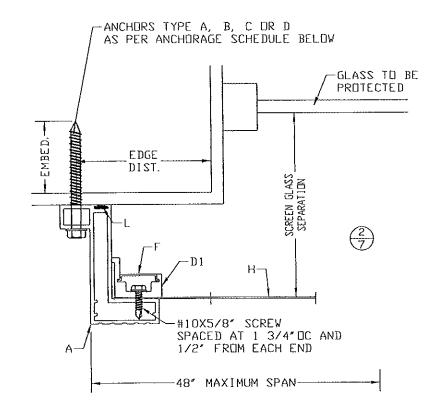
SHEET 6 OF 10

REAR ELEVATION TYPICAL SCREEN PANEL ASSEMBLY SCREWS LAY-OUT



TYPE D48 BARRIER Pd = +121, -135 PSFFIXED SINGLE MODULES APPLICABLE FOR "Z" SERIES





ANCHOR SP	PACING (in oc)
TYPE	JAMBS
A	11"
В	4ª
С	12"
D	9"

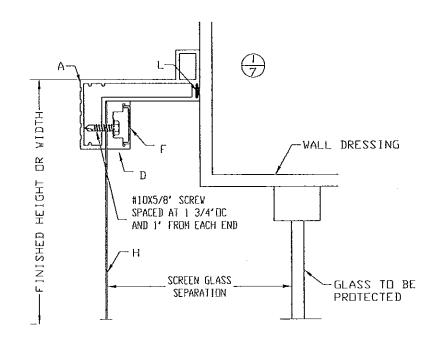
GLASS SEPARATION:

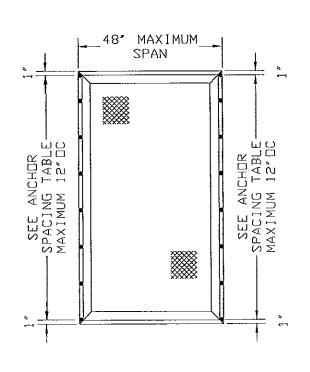
(SINGLE UNIT - TYPE	D48)
ELEVATION >30'	3 3/4"
ELEVATION <=30'	3*

ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDEX	3000 PSI CONCRETE	1.75	2.50
В	1/4" TAPCONS BY ITW BUILDEX	HOLLOW BLOCK	1.25	2.50
Č	1/4" LAG SCREWS	WOOD 5G>0.55	1.50	0.75
D	1/4-14X1 1/2 SDS GR5	1/8" METAL	.125	0.75

I - EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING 2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL





MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

PRODUCT:

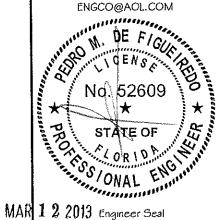
SCREEN BARRIER

0.028" STAINLESS STEEL HURRICANE SCREEN LARGE & SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILIE

5595 ORANGE DR. 201 DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



MAR 1 2 2013 Engineer Seal Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

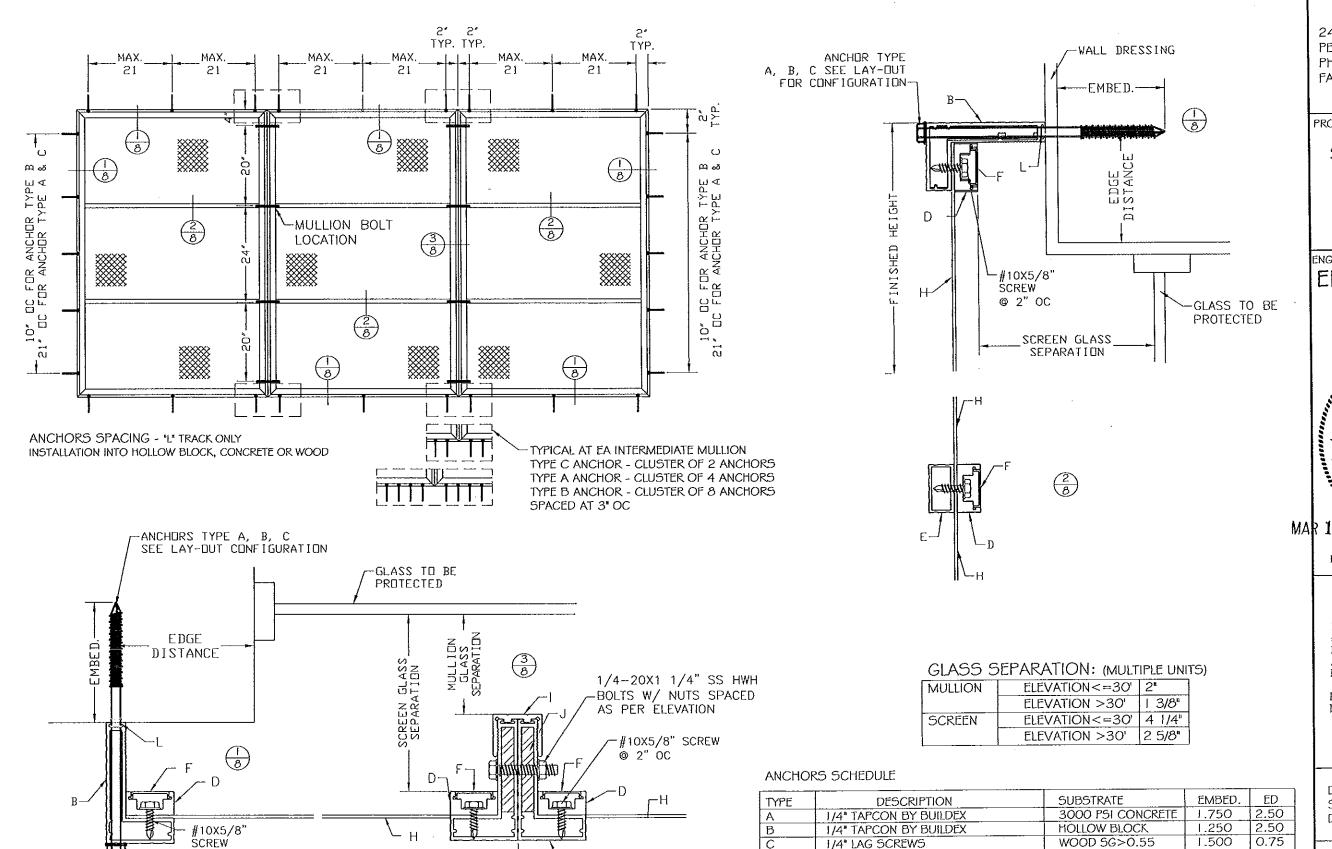
PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12 -Expiration Date 281

Minni Dade Prinhitt Control

DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

SHEET 7 OF 10

TYPE E BARRIER Pd= +55, -60 PSF FIXED MULTIPLE MODULES - APPLICABLE FOR "L" SERIES



I - EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING.

@2" OC

HURRICANE WINDOW

SCREEN MODULE

MANUFACTURER:

PROTECH SCREENS, INC

2425 ROY ROAD PEARLAND - TEXAS PHONE: (281) 485-2300 FAX: (281) 485-8837

PRODUCT:

SCREEN BARRIER 0.028" STAINLESS STEEL HURRICANE SCREEN LARGE \$ SMALL MISSILE IMPACT RATED

ENGINEERING:

ENGCO INC. CABILG

5595 ORANGE DR. 201 DAVIE, FL. 33314 Tel.: (954) 585-0304 ENGCO@AOL.COM



Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12

Expiration Date 28

Miami Dade Product Control

DATE: 05/17/2012 SCALE: NA DESIGN BY: PPMF

> SHEET 8 OF 10

